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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/701,864	<u> </u>	11/05/2003	Yong Wang	200312367-1	7773	
22879	7590	03/28/2006		EXAM	EXAMINER	
		CARD COMPANY	NGHIEM, N	NGHIEM, MICHAEL P		
P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION				ART UNIT	PAPER NUMBER	
		CO 80527-2400		2863		
				DATE MAILED: 03/28/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/701,864	WANG ET AL.	
Office Action Summary	Examiner	Art Unit	
	Michael P. Nghiem	2863	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence a	ddress
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a glood will apply and will expire SIX (6) MON tute, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this BANDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 11 2a)⊠ This action is FINAL. 2b)□ T 3)□ Since this application is in condition for allow closed in accordance with the practice under	his action is non-final. wance except for formal mat	· •	ne merits is
Disposition of Claims			
4) Claim(s) 1-10 and 12-29 is/are pending in the 4a) Of the above claim(s) is/are with definition of the above claim(s) is/are with definition of the above claim(s) is/are allowed for allowing claim(s) 1-10,12,13 and 20-29 is/are allowed for claim(s) 14 and 15 is/are rejected. 7) Claim(s) 16-19 is/are objected to. 8) Claim(s) are subject to restriction and claim(s) are subject to restriction and claim(s) The specification is objected to by the Exame 10) The drawing(s) filed on is/are: a) are subjected to is/are: a) are subjected is/are: a) are: a) are	drawn from consideration. ed. d/or election requirement. iner. accepted or b) □ objected to		
Applicant may not request that any objection to to Replacement drawing sheet(s) including the corrupt The oath or declaration is objected to by the	rection is required if the drawing	g(s) is objected to. See 37 (•
Priority under 35 U.S.C. § 119	•		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Burn * See the attached detailed Office action for a line of the papplication from the International Burn * See the attached detailed Office action for a line of the papplication from the International Burn * See the attached detailed Office action for a line of the papplication from the International Burn * See the attached detailed Office action for a line of the papplication from the International Burn * See the attached detailed Office action for a line of the papplication from the International Burn * See the attached detailed Office action for a line of the papplication from the International Burn * See the attached detailed Office action for a line of the papplication from the International Burn * See the attached detailed Office action for a line of the papplication from the International Burn * See the attached detailed Office action for a line of the papplication from the International Burn * See the attached detailed Office action for a line of the papplication from the International Burn * See the attached detailed Office action for a line of the papplication from the International Burn * See the attached detailed Office action for a line of the papplication from the International Burn * See the attached detailed Office action for a line of the papplication from the Internation for a line of the papplication from the Internation for a line of the papplication from the Internation for a line of the papplication from the Internation for a line of the papplication from the Internation for a line of the papplication from the Internation for a line of the papplication from the Internation for a line of the papplication from the Internation for a line of the papplication from the Internation for a line of the papplication from the Internation for a line of the pappli	ents have been received. ents have been received in A riority documents have beer eau (PCT Rule 17.2(a)).	Application No received in this Nationa	al Stage
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PT	ГО-152)

DETAILED ACTION

The Amendment filed on January 11, 2006 has been acknowledged.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 14 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Bowling et al. (US 4,497,030).

Regarding claim 14, Bowling et al. discloses a system (Fig. 2) for determining S-parameters (column 3, lines 16-17) of a network (40), the system comprising:

- means (column 2, lines 14-16; column 3, lines 1-2) for determining **at least one** of waveform parameters (amplitude and phase, column 3, lines 47-49) and reflection coefficients based on single port measurements (measurements at port 41 at some instance in time, column 3, lines 47-54) of the network (40), each of the single port measurements being a measurement at one port (41) of the network (40) (Fig. 2) while

each of the other plural ports (45's) are not measured and are one of open or shorted (shorted, Fig. 2);

- means for computing S-parameters (S parameters) of the network based on the at least one of waveform parameters and reflection coefficients (column 3, lines 16-17).

Regarding claim 15, Bowling et al. discloses means for performing single port measurements to enable a determination of the at least one of waveform parameters (column 3, lines 47-54) and reflection coefficients, the determining means computes the at least one of waveform parameters (column 3, lines 47-49) and reflection coefficients based on the single port measurements (column 3, lines 47-54).

Allowable Subject Matter

Claims 16-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 1-10, 12, 13, and 20-29 are allowed.

Reasons For Allowance

The **combination** as claimed wherein an S-parameter calculator that computes the S-parameters of the network based on waveform parameters determined based on single port measurements implemented at each of plural ports of the network (claim 1) or a reflection coefficient engine that provides a subset of at least n-1 reflection coefficients associated with ports of the mufti-port network, and an S-parameter calculator that computes the S-parameters for the n-port network based on the subset of reflection coefficients (claim 10) or means for selecting a set of the reflection coefficients to be implemented by the determining means (claim 16) or the computing means comprises means for determining plural sets of the S-parameters for the network based on different respective sets of the reflection coefficients (claim 18) or waveform parameters based on single port measurements performed at plural ports of the network (claims 20, 28) or determining reflection coefficients based on single port measurements performed at plural ports of the network; and determining S-parameters of the network based on the reflection coefficients (claim 29) is not disclosed, suggested, or made obvious by the prior art of record.

Response to Arguments

Applicant's arguments filed on January 11, 2006 have been fully considered but they are not persuasive.

With respect to the 35 USC 102 rejection of claim 14, Applicants argue that Metzger teaches only multi-port measurements to determine S-parameters of a network, and not single port measurements.

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Examiner's position is that Bowling teaches single port measurements (at port 41, Fig. 2) to determine S-parameters of a network (40) (column 3, lines 47-54).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Nghiem whose telephone number is (571) 272-2277. The examiner can normally be reached on M-H.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MICHAEL NGHIEM PRIMARY EXAMINER

Michael Nghiem

March 24, 2006